FILE COPY

Date Out. EFB:

	Product Manager 15—767	21 Jacoby				
C	or. Willa Garner JJ Thief, Review Section Invironmental Fate B	n No. 1	•			•
Attached :	please find the env	ironmental f	ate revi	ew of:		·
Reg./File	No.: 677-313				•	
Chemical:	Chlorothalonil			•		
					-	-
Type Prod	luct: Fungicide					
Product N	Jame: Bravo 500		na nda njin Bijindi Nasiyaa (ndi),	and the second		
Company N	Jame: Diamond S	hamrock	-			
Submissio	on Purpose: Aquati	c field stud	ly protoc	ol		
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			4			
ZBB Code:	3	• .		ACTION CODE:_	450	
Date in: 10/8/81				EFB # 8		·
Date Completed: OCT 14 1981			TAIS (level II	<u>.</u>	Days	
Deferrals To.			67		· 2	
X	Ecological Effec	ts Branch		• • •		. •
	Residue Chemistr	y Branch	ž •			
•	Toxicology Brand	h				

- 1.0 Diamond Shamrock has submitted copies of the final protocol entitled "Aquatic Field Study with Bravo 500" (Acc. No. 246003) for review.
- 2.0 Bravo 500: chlorothalonil

tetrachloroisophthalonitrile

3.0 DISCUSSION

According to the registrant's letter dated 8/12/81 enclosed in the submission, the draft protocol for this aquatic field study had been reviewed and that the comments made were incorporated into the final version of the protocol. The registrant's letter also states that the study already was in progress and that analyses of samples would begin in about 60 days (October, 1981).

In response to an EFB request dated 6/9/81, EFB reviewed the draft protocol and sent its comments to EEB on 6/15/81. All EFB comments appear to be in the final protocol.

The stated objectives of the study are: 1) to determine toxicological impact on fish as a result of runoff; 2) to measure residue levels in runoff water; and 3) to measure residue levels in pond water, pond sediment and fish.

4.0 RECOMMENDATIONS

- 4.1 The protocol appears to have incorporated all EFB suggestions. However, it is still unclear if residue analyses will include parent and metabolic products DS-3701 and 3-cyano-2,4,5,6-tetrabenzamide. It is recommended that analyses for all three species be done.
- 4.2 EFB reiterates the need for copies of analytical methodologies used including recovery data.

4.3 EFB defers to EEB to comment on whether all ecological factors have been considered.

Richard V. Moraski

Chemist

Review Section No. 1

Environmental Fate Branch